

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A direct drive motor in a washing machine, comprising:
a ~~stator~~¹⁴ having ~~stator~~ ~~having~~ a winding portion with coils wound thereon;
a rotor having a sidewall ~~13b~~, and a rear wall ~~13a~~ with a pass through hole ~~134~~ at a center,
an annular washer in close contact with, and fixedly secured to, the rear wall ~~13a~~ of the rotor ~~13~~;
a connector of resin having a vibration mode different from ~~the-a~~ washing shaft, fixedly secured to the rear wall of the rotor for supporting the washing shaft; and
coupling means for coupling the connector ~~16~~, the rotor ~~13~~, and the washer ~~30~~ together.
2. (Currently Amended) The direct drive motor as claimed in claim 1, wherein the rotor ~~13~~ is constructed of steel plate by pressing, to form the side wall ~~13b~~ and the rear wall ~~13a~~ as one body.
3. (Currently Amended) The direct drive motor as claimed in claim 1, wherein the rotor ~~13~~ has fastening pass through holes ~~138~~ around the pass through hole ~~134~~,
the washer ~~30~~ has fastening pass through holes ~~300a~~ on a surface thereof in correspondence to the fastening pass through holes ~~138~~ in the rear wall of the rotor,
the connector has fastening pass through holes ~~162~~ in correspondence to the fastening pass through holes ~~138~~ in the rotor ~~13~~, and
the coupling means includes bolts ~~'B'~~ inserted through the fastening pass through holes ~~162~~, ~~138~~, and ~~300a~~, and nuts ~~'N'~~ fastened to threads on the bolts ~~'B'~~, for holding the connector ~~16~~, rotor, and washer.
4. (Currently Amended) The direct drive motor as claimed in claim 1, wherein the annular washer ~~30~~ further includes positioning holes in which the positioning projections

~~160~~ on the connector-16 are placed respectively, separate from the fastening pass through holes-300a.

5. (Currently Amended) The direct drive motor as claimed in claim 4, wherein the positioning holes are formed along a circumferential direction of an imaginary circle having a diameter different from an imaginary circle connecting centers of the fastening pass through holes-300a in the annular washer-30.

6. (Currently Amended) The direct drive motor as claimed in claim 2, wherein the rotor-13 further includes a hub-132 projected from the rear wall toward the washing shaft for reinforcing strength, and providing a seating surface.

7. (Currently Amended) The direct drive motor as claimed in claim 6, wherein the annular washer-30 includes a bent portion-310 on a circumference having a shape in conformity with a shape of a bent portion of the hub-132.

8. (Currently Amended) The direct drive motor as claimed in claim 6, wherein the annular washer-30 is in close contact with, and fixedly secured to an outer side of the rear wall-13a of the rotor-13, and the connector-16 is mounted on an inner side of the rear wall-13a of the rotor-13.

9. (Currently Amended) A direct drive motor in a washing machine comprising:
~~a stator-14 having~~ stator having a winding portion with coils wound thereon;
a rotor having a sidewall-13b, and a rear wall-13a with a pass through hole-131 at a center, and fastening pass through holes-138 around the pass through hole-131;
an annular washer-30 in close contact with, and fixedly secured to, the rear wall-13a of the rotor-13, the annular washer-30 having fastening bosses-300 projected from a surface thereof toward a washing shaft in correspondence to fastening pass through holes-138 in the rear wall of the rotor, each of the fastening bosses-300 having a fastening hole-300b with a thread on an inside circumference; and

a connector of resin having a vibration mode different from the washing shaft, fixedly secured to the rear wall of the rotor with bolts—⁴B— passed through the fastening pass through holes—¹³⁸ in the rotor, and fastened to the fastening bosses—³⁰⁰ on the annular washer—³⁰.

10. (Currently Amended) The direct drive motor as claimed in claim 9, wherein the rotor—¹³ is constructed of steel plate by pressing, to form the side wall—^{13b} and the rear wall—^{13a} as one body.

11. (Currently Amended) The direct drive motor as claimed in claim 10, wherein the fastening bosses—³⁰⁰ on the annular washer—³⁰ are in at least two lines in a circumferential direction as imaginary circles connecting centers of the fastening bosses 300 have diameters different from each other.

12. (Currently Amended) The direct drive motor as claimed in claim 10, wherein the annular washer—³⁰ further includes positioning holes in which the positioning projections—¹⁶⁰ on the connector—⁴⁶ are placed respectively, separate from the fastening bosses—³⁰⁰.

13. (Currently Amended) The direct drive motor as claimed in claim 12, wherein the positioning holes are formed along a circumferential direction of an imaginary circle having a diameter different from an imaginary circle connecting centers of the fastening pass bosses—³⁰⁰ on the annular washer—³⁰.

14. (Currently Amended) The direct drive motor as claimed in claim 10, wherein the rotor—¹³ further includes a hub—¹³² projected from the rear wall toward the washing shaft for reinforcing strength, and providing a seating surface.

15. (Currently Amended) The direct drive motor as claimed in claim 14, wherein the annular washer-30 includes a bent portion-310 on a circumference having a shape in conformity with a shape of a bent portion of the hub-132.

16. (Currently Amended) The direct drive motor as claimed in claim 14, wherein the annular washer-30 is in close contact with, and fixedly secured to an outer side of the rear wall-13a of the rotor-13, and the connector-16 is mounted on an inner side of the rear wall-13a of the rotor-13.

17. (Currently Amended) A direct drive motor in a washing machine comprising:
a ~~stator 14 having~~ stator having a winding portion with coils wound thereon;
a rotor having a sidewall-13b, and a rear wall-13a with a pass through hole-131 at a center, and fastening pass through holes-138 around the pass through hole-131;
a connector-16 of resin having a vibration mode different from the washing shaft, fixedly secured to an inner side of the rear wall of the rotor for supporting the washing shaft, the connector having fastening pass through holes-162 in correspondence to the fastening pass through holes-138 around the pass through hole-131;
an annular washer-30 in close contact with an outer side of, and fixedly secured to, the rear wall-13a of the rotor-13, the annular washer-30 having fastening pass through holes-300a in a surface thereof in correspondence to the fastening pass through holes-138 in the rear wall of the rotor, and positioning holes in which the positioning projections 160 on the connector-16 are inserted; and
coupling means for coupling the connector-16, the rotor-13, and the washer-30.

18. (Currently Amended) The direct drive motor as claimed in claim 17, wherein the rotor 13 further includes a hub-132 projected from the rear wall toward the washing shaft for reinforcing strength, and providing a seating surface.

19. (Currently Amended) The direct drive motor as claimed in claim 18, wherein the positioning holes are formed along a circumferential direction of an imaginary circle

having a diameter different from an imaginary circle connecting centers of the fastening pass through holes-300a in the annular washer-30.

20. (Currently Amended) The direct drive motor as claimed in claim 19, wherein the annular washer-30 includes a bent portion-310 on a circumference having a shape in conformity with a shape of a bent portion of the hub-132.